INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/37044

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : C12Q 1/68; C12P 19/36; C12M 1/36 US CL : 435/6, 91.2, 287.2			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/5, 6, 91.2, 183, 287.1 287.2; 536/23.1, 24.3, 24.31, 24.33			
0.3 433/3, 0, 71.2, 103, 207.1 207.2, 330/23.1, 24.3, 24.31, 24.33			
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
EAST (USPat, USPGP, EPO, JPO, Derwent)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.
Y	US 5,474,796 A (BRENNAN) 12 December 1995 (12.12.1995), see entire document.		1-15
	VIO 2000/0045000 14 (PEGIVER) 02 14 000 (20 000 000 000 000 000 000 000 000		
Y	US 2002/0055099 A1 (FISHER) 09 May 2002 (09.0	1-15	
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I, F	, P US 6,503,717 B2 (CASE et al.) 07 January 2003 (07.01.2003), see entire document.		1-15
Y. P	Y, P US 6,586,185 B2 (WOLF et al.) 01 July 2003 (01.07.2003), see entire document.		1-15
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	documents are listed in the continuation of Box C.	See patent family annex.	
• s	pecial categories of cited documents:	"T" later document published after the inte- date and not in conflict with the applic	
	defining the general state of the art which is not considered to be	principle or theory underlying the inve	
of particu	lar relevance	"X" document of particular relevance; the	plaimed investion
"E" carlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider	ed to involve an inventive step
"L" document	which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone	·
establish	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	claimed invention cannot be
specified)		considered to involve an inventive step	when the document is
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"P" document	published prior to the international filing date but later than the	"&" document member of the same patent i	to maid to
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			enuty
Date of the a	ctual completion of the international search	Date of mailing of the international search	ch report
	04 (21.03.2004)	06 MAY 2004	
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